



# Copy - Backup - Rescue HDClone 3.5



HDClone creates physical copies of hard disks and other media, i.e. every single sector is copied 1:1 to the target medium. HDClone can handle any partition layout and any file system and is also able to duplicate entire operating system installations.

## New: SmartCopy Mode

New to HDClone 3.5 are logical 1:1 copies for FAT and NTFS file systems. Duplication takes only a fraction of the time a physical 1:1 copy needs. Ideal for fast backups and for migrating disks/partitions.

## Hardware Requirements

- PC 586 or higher, 90 MHz, 32 MB RAM, VGA
- Keyboard, mouse (optional): Standard, PS/2 or USB (HID)
- bootable floppy disk or CD/DVD drive

## Supported Media

- IDE/ATA/SATA hard disks (also > 128/137 GB)
- CompactFlash via IDE <sup>1)</sup>
- SCSI hard disks
- USB hard disks (internal & external), USB keys <sup>2)</sup>
- SD/MMC cards <sup>3)</sup>, CompactFlash I&II <sup>3)</sup>, MicroDrive <sup>3)</sup>
- xD Picture Card <sup>3)</sup>, Memory Stick (PRO/DUO) <sup>3)</sup>
- SATA II and eSATA hard disks
- Firewire/IEEE1394 media (internal & external)

1) CompactFlash media with TrueIDE support, 2) using the USB-Mass-Storage-Class protocol, 3) using an according USB or Firewire card reader

## Supported Controllers

- PCI IDE controller / Busmaster IDE controller
- various Adaptec SCSI host adapters <sup>4)</sup>
- SATA controllers with IDE interface
- USB 1.1/2.0 controllers with UHCI/OHCI/EHCI
- SATA II controllers with AHCI interface
- Firewire/IEEE1394 controllers with OHCI

4) see also <http://www.miray.de/products/scsicompat.html>

## For every Application

Whether for private, regular or professional use - HDClone offers a cost-efficient solution for every purpose:

- **Free Edition (only private users):** Simple and free-of-charge solution for 1:1-copies, especially for one-time system migration.
- **Basic Edition (only private users):** For occasional operation on private computers for backup and system migration.
- **Standard Edition:** For regular application in home and small-office areas, as backup, migration, and data rescue solution.
- **Professional Edition:** Copy solution for professional users for creation of exact 1:1-copies with high speed, a broad device support, and other special options.
- **Enterprise Edition:** Professional solution for mass cloning e.g. for creation of mass installations. Up to 16 copies simultaneously with up to 1 GB/sec (60 GB/min) and on all supported device types.

More information about the different editions can be found on the right and online at [www.hdclone.com](http://www.hdclone.com). The Free Edition is available as free download at <http://www.miray.de/download/sat.hdclone.html> and contains a **compatibility and speed test**.



## Fault Tolerance

HDClone tries to rescue defective sectors using different strategies. Even if these strategies are not successful, defective sectors do not obstruct the copying process.

## Data Rescue

HDClone is especially suitable for rescuing data. In particular, physical defects will spread over the whole medium while the drive is used further. The SafeRescue mode therefore reads the data by stressing the hard disk as little as possible. The copy of the defective hard disk then can be used to try different recovery methods without putting the original data at risk.

## Areas of Use

- migrating entire system installations
- backup / data rescue
- mass installation of PC systems
- copy/backup/rescue „exotic“ file systems
- proprietary hard disk formats
- recovery of defective systems
- copying between SCSI, IDE, USB, Firewire, SATA
- forensics, rescuing and securing of evidence

Edition overview	Free	Basic	Standard	Professional	Enterprise
USB support	✓	✓	✓	✓	✓
SCSI support	✗	✗	✗	✓	✓
Firewire / IEEE1394	✗	✗	✗	✓	✓
max. copy rate MB/s	5	10	20	90+	1000+
SafeRescue mode	✗	✓	✓	✓	✓
Verification mode	✗	✗	✓	✓	✓
<b>new: SmartCopy</b>	✗	✗	✓	✓	✓
FastCopy mode	✗	✗	✗	✓	✓
Sector area copy	✗	✗	✗	✓	✓
MultiCopy (4x, 8x, 16x)	✗	✗	✗	✗	✓
Private use	✓	✓	✓	✓	✓
Companies/Institutes	✗	✗	✓	✓	✓
Technician license	✗	✗	✗	✓	✓